## IN THE CLAIMS:

## **Listing of Claims:**

Claims 1-10 (Cancelled)

- 11. (Currently Amended)A starting bootstrap circuit for switching power supplies, comprising:
  - a first supply voltage coming from a first terminal; .
  - a second supply voltage coming from a second terminal and a third terminal;
  - a first current path between the first terminal and the third terminal;
  - a second current path between the first terminal and the second terminal;
  - a third current path between the second terminal and the third terminal; and
- a two-way voltage regulator placed along the second current path, wherein the two-way voltage regulator comprises a transistor having the drain coupled to the second terminal and the source coupled to the first and to the third terminal.
- 12. (Currently Amended) The <u>starting bootstrap</u> circuit according to claim 11, wherein the two-way voltage regulator comprises a voltage limiting circuit supplied by the first supply voltage.
- 13. (Cancelled)
- 14. (Currently Amended) The <u>starting</u> <del>bootstrap</del> circuit according to claim <u>11</u> <del>13</del>, wherein the two-way voltage regulator comprises a preset voltage generator coupled to the transistor gate.
- 15. (Currently Amended) The <u>starting bootstrap</u> circuit according to claim <u>11</u> <del>13</del>, wherein the two-way voltage regulator comprises a capacitor coupled to the transistor gate.
- 16. (Currently Amended) The <u>starting</u> bootstrap circuit according to claim 11, wherein the first current path comprises a resistance.

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- 17. (Currently Amended) The <u>starting bootstrap</u> circuit according to claim 11, wherein the first current path comprises a controlled switch.
- 18. (Currently Amended) The <u>starting bootstrap</u> circuit according to claim 17, wherein the controlled switch is closed when the second supply voltage is lower than a preset reference voltage value and it is open when the second supply voltage is higher than the preset reference value.
- 19. (Currently Amended) A switching power supply comprising:
  - a control circuit for the switching power supply; and
- a <u>starting</u> bootstrap circuit of the control circuit, the <u>starting</u> bootstrap circuit comprising:
  - a first supply voltage coming from a first terminal;
  - a second supply voltage coming from a second terminal and a third terminal;
  - a first current path between the first terminal and the third terminal;
  - a second current path between the first terminal and the second terminal;
  - a third current path between the second terminal and the third terminal; and
  - a two-way voltage regulator placed along the second current path, wherein the

two-way voltage regulator comprises a transistor having the drain coupled to the second terminal and the source coupled to the first and to the third terminal.

- 20. (Currently Amended) An integrated circuit for a switching power supply, the integrated circuit comprising:
  - a control circuit for the switching power supply; and
- a <u>starting</u> bootstrap circuit able to sustain a self supply voltage greater than 40 V, the <u>starting</u> bootstrap circuit comprising:
  - a first supply voltage coming from a first terminal;
  - a second supply voltage coming from a second terminal and a third terminal;
  - a first current path between the first terminal and the third terminal;
  - a second current path between the first terminal and the second terminal;
  - a third current path between the second terminal and the third terminal; and
  - a two-way voltage regulator placed along the second current path, wherein the

two-way voltage regulator comprises a transistor having the drain coupled to the second terminal and the source coupled to the first and to the third terminal.

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